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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. |
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09/306,888 05/07/99 OPSTAD

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EXAMINER

HAVAN, T

ART UNIT

PAPER NUMBER

2672
DATE MAILED:

02/13/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

| | | |
|------------------------------|----------------------------|------------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 09/306,888 | OPSTAD ET AL. |
| | Examiner Thu-Thao Havan | Art Unit 2672 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 07 May 1999.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-31 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) Notice of References Cited (PTO-892)
- 16) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 .
- 18) Interview Summary (PTO-413) Paper No(s) _____.
- 19) Notice of Informal Patent Application (PTO-152)
- 20) Other: _____

DETAILED ACTION

Drawings

The drawings in this application are accepted by the Draftsperson.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brock et al. (US patent no. 5,664,086).

1. As to claims 1, 11, 16, 26, and 29, the prior art Brock had:

A.) The step of retrieving glyphs from a font which correspond to characters in a string of characters (**col. 5, lines 25-67; col. 6, lines 1-13; fig. 22-23**). Brock teaches a glyph comprises a unitary character on a piece of character and the character is a font. As discloses, Brock teaches this part of the claim.

B.) The step of determining whether the font contains a predetermined data table that pertains to the layout of glyphs (**col. 10, lines 53-67; col. 11; fig. 21-26**). The base font in Brock contains a predetermined data table that pertains to the layout of glyphs. Furthermore, Brock discloses the font directory table having a list of offsets to the output font descriptors in the Font Description Table.

C.) The step of automatically synthesizing the data table, based upon data contained in the font, if the font is determined not to contain the data table (**col. 12, lines 31-38; fig. 27-29**). Brock teaches the automatically synthesizing the data table when he discloses the algorithm as a pseudo-code form. Figure 29 of Brock discloses the steps of automatically synthesizing the font based upon available font.

D.) The step of generating an image of the laid-out line of glyphs (**fig. 15-17, 23-24, and 29**). Figures 15-17 disclose an image of the laid-out of glyphs.

However, Brock fails to explicitly teach the step of laying out the glyphs in a line, in accordance with the data in the table. Nevertheless, Brock teaches the table Font Names is a table of strings for all the font names defined in the Font Directory. The Font Directory table is a list of offsets to the output font descriptors in the Font Description Table. Brock does not use the exact phrase of “laying out the glyphs in a line,” but the functionality of the Font Directory table corresponds to the limitation. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the step of laying out the glyphs in a line, in accordance with the data in the table because Brock teaches the Font Directory table (**col. 10 and 11;fig. 15-17, 23-25, and 29**).

2. As to claims 4-5, 13-14, 20, 27, Brock discloses the annex file (**col. 2 and 3; col. 5, lines 15-24; fig. 1**). The annex file is the descriptor file in Brock. The functionality of the descriptor file is equivalent to the annex file.

3. As to claims 6-8, 17-19, 22-25, and 30-31, Brock discloses the font map (**col. 6, lines 28-67; col. 7, lines 1-29; col. 11, lines 13-49**). Brock teaches a mapping of design features for the glyph to the font-wide design features.

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4. As to claims 9-10, 21, and 28, Brock discloses the step of automatically synthesizing the data table comprises the steps of retrieving data from the font and storing the retrieved data in a table having a predetermined data format (**col. 5-10; fig. 9-23**).

5. The limitations of claims 2-3, 12, and 15 are analyzed as discussed with respect to claims 1, 11, 16, 26, and 29 above.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Torres, US Patent No. 5,001,697

Opstad et al., US Patent No. 5,416,898

Hashizume et al., US Patent No. 5,513,278

Manning, US Patent No. 6,043,826

Nanjo et al., US Patent No. 5,778,361

Beaman et al., US Patent No. 5,926,189

Beaman et al., US Patent No. 6,091,505

Kanungo et al., US Patent No. 5,870,084

Howlett et al., US Patent No. 5,710,880

Inquiries

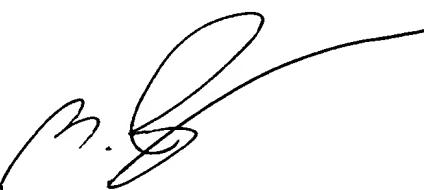
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu-Thao Havan whose telephone number is (703) 308-7062. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on (703) 305-4713. The fax phone numbers for the organization where this application or proceeding is assigned are (703)308-6606 for regular communications and (703)308-9051 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-9500.

Thu-Thao Havan

February 8, 2001



MICHAEL RAZAVI
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600